

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Claim 1. (Currently Amended) A nucleic acid molecule ~~comprising a sequence of nucleotides that encodes~~ encoding an HPV58 L1 protein ~~consisting of as set forth in~~ SEQ ID NO:2, wherein said nucleic acid molecule comprises a ~~the~~ nucleic acid sequence encoding SEQ ID NO:2 which is ~~being~~ codon-optimized for high-level expression in a yeast cell.

Claim 2. (Original) A vector comprising the nucleic acid molecule of claim 1.

Claim 3. (Original) A host cell comprising the vector of claim 2.

Claim 4. (Original) The host cell of claim 3, wherein the host cell is a yeast cell.

Claim 5. (Original) The host cell of claim 4, wherein the yeast cell is selected from the group consisting of: *Saccharomyces cerevisiae*, *Hansenula polymorpha*, *Pichia pastoris*, *Kluyveromyces fragilis*, *Kluyveromyces lactis*, and *Schizosaccharomyces pombe*.

Claim 6. (Original) The host cell of claim 5, wherein the host cell is *Saccharomyces cerevisiae*.

Claim 7. (Original) The nucleic acid molecule of claim 1, wherein the sequence of nucleotides comprises a sequence of nucleotides as set forth in SEQ ID NO:1.

Claim 8. (Original) A vector comprising the nucleic acid molecule of claim 7.

Claim 9. (Original) A host cell comprising the vector of claim 8.

Claims 10-29. (Canceled)